

10/31/2017 3:57 PM

DOCKET NO. D-2006-038-3

DELAWARE RIVER BASIN COMMISSION

Discharge to Special Protection Waters

River Road Utilities, Inc.

Tuscarora Wastewater Treatment Plant

Upper Mount Bethel Township, Northampton County, Pennsylvania

PROCEEDINGS

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) by Portland Contractors, Inc. on behalf of River Road Utilities, Inc. on April 24, 2017 (Application), for renewal of the docket holder's wastewater treatment plant (WWTP) and its discharge. National Pollutant Discharge Elimination System (NPDES) Permit No. PA0043915 for the project discharge was issued by the Pennsylvania Department of Environmental Protection (PADEP) on February 26, 2013, effective March 1, 2013.

The Application was reviewed for continuation of the project in the Comprehensive Plan and approval under Section 3.8 of the *Delaware River Basin Compact*. The Lehigh Valley Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on November 15, 2017.

A. DESCRIPTION

1. **Purpose.** The purpose of this docket is to renew approval of the docket holder's existing 0.066 million gallons per day (mgd) WWTP and its discharge.
2. **Location.** The WWTP will continue to discharge treated effluent to the River Water Quality Zone 1D at River Mile 204 via Outfall No. 001, within the drainage area to the Lower Delaware Special Protection Waters (SPW), in Upper Mount Bethel Township, Northampton County, Pennsylvania as follows:

OUTFALL NO.	LATITUDE (N)	LONGITUDE (W)
001	40° 52' 47"	75° 03' 41"

3. **Area Served.** The docket holder's WWTP serves the Tuscarora Inn and Conference Center and Tuscarora Village in Upper Mount Bethel Township, Northampton County, Pennsylvania.

For the purpose of defining the Area Served, Section B (Type of Discharge) and D (Service Area) of the docket holder's Application are incorporated herein by reference, to the extent consistent with all other conditions contained in the DECISION Section of this docket.

4. **Physical Features.**

a. **Design Criteria.** The docket holder's 0.066 mgd WWTP treats domestic sanitary wastewater through extended aeration treatment system with tertiary filtration. The WWTP is designed to meet DRBC's BDT effluent requirements.

b. **Facilities.** The existing facilities consist of influent pumping, bar screen, flow splitter box, two (2) variable level extended aeration tanks, two clarifier tanks, two (2) denitrification filters, ultra-violet light (UV) disinfection system, and a post-aeration tank.

The docket holder's wastewater treatment facility discharges to waters classified as SPW and is required to have available standby power. The existing WWTP has a generator installed capable of providing standby power. (SPW)

The docket holder's wastewater treatment facility is not staffed 24 hours per day, and shall have a remote alarm system that continuously monitors plant operations in accordance with the Commission's SPW requirements. The existing WWTP has a remote alarm system installed that continuously monitors plant operations. (SPW)

The docket holder has prepared and implemented an emergency management plan (EMP) for the existing WWTP in accordance with Commission SPW requirements. (SPW)

The entire Tuscarora WWTP is located within the 100-year flood zone; however, none of the facilities are located within the floodway. The docket holder has submitted plans indicating that the existing WWTP facilities are flood-proofed up to the flood hazard protection elevation (100-year flood elevation plus one foot). This is accomplished by raising the tops of the tanks above the flood hazard protection elevation.

Wasted sludge will continue to be hauled off-site by a licensed hauler for disposal at a state approved facility.

c. **Water withdrawals.** The potable water supply in the project service area is provided by a community well that serves the Tuscarora Village residences and two transient non-community wells that serve the Tuscarora Inn and Conference Center.

d. **NPDES Permit / DRBC Docket.** NPDES Permit No. PA0043915 was issued by the PADEP on February 26, 2013 (effective March 1, 2013) and includes final effluent limitations for the project discharge of 0.066 mgd to surface waters classified by the PADEP as WWF (Warm

Water Fishes) and MF (Migratory fishes). The following average monthly effluent limits are among those listed in the NPDES Permit and meet or are more stringent than the effluent requirements of the DRBC.

EFFLUENT TABLE A-1: DRBC Parameters Included in NPDES Permit.

OUTFALL 001 (WWTP effluent)		
PARAMETER	LIMIT	MONITORING
pH (Standard Units)	6 to 9 at all times	As required in the NPDES permit
Total Suspended Solids	10 mg/l	As required in the NPDES permit
Dissolved Oxygen	6.0 mg/l (minimum at all times)	As required in the NPDES permit
CBOD (5-Day at 20° C)	10 mg/l	As required in the NPDES permit
Ammonia-Nitrogen (5-1 to 10-31) (11-1 to 4-30)	1.5 mg/l 4.5 mg/l	As required in the NPDES permit
Total Dissolved Solids*	1,000 mg/l	As required in the NPDES permit
Fecal Coliform (year-round)	50 colonies per 100 ml as a geo. avg.	As required in the NPDES permit
Phosphorus	2 mg/l	As required in the NPDES permit

* See Condition II.t.

The requirements in EFFLUENT TABLE A-2 are not listed in the NPDES Permit, but are Commission SPW specific parameters that must be met as a condition of this docket approval.

EFFLUENT TABLE A-2: DRBC Parameters Not Included in NPDES Permit.

OUTFALL 001 (WWTP effluent)		
PARAMETER	LIMIT	MONITORING
Nitrate-Nitrogen	Monitor and Report	Monthly
Total Nitrogen	Monitor and Report	Monthly
CBOD (5-Day at 20° C) INFLUENT SAMPLE	Monitor and Report	2 times per month

B. FINDINGS

The docket holder submitted an Application to renew the approval of the existing 0.066 mgd Tuscarora WWTP on April 24, 2017. This docket (D-2006-038-3) renews the DRBC approval.

In 1992, the DRBC adopted SPW requirements, as part of the DRBC *Water Quality Regulations (WQR)*, designed to protect existing high water quality in applicable areas of the Delaware River Basin. One hundred twenty miles of the Delaware River from Hancock, New York downstream to the Delaware Water Gap has been classified by the DRBC as SPW. This stretch includes the sections of the river federally designated as "Wild and Scenic" in 1978 -- the Upper Delaware Scenic and Recreational River and the Delaware Water Gap National Recreation

Area -- as well as an eight-mile reach between Milrift and Milford, Pennsylvania which is not federally designated. The SPW regulations apply to this 120-mile stretch of the river and its drainage area. (Upper/Middle SPW)

On July 16, 2008, the DRBC approved amendments to its *Water Quality Regulations (WQR)* that provide increased protection for waters that the Commission classifies as SPW. The portion of the Delaware River and its tributaries within the boundary of the Lower Delaware River Management Plan Area was approved for SPW designation. (Lower SPW)

The docket holder's WWTP discharges to the Lower Delaware River SPW. The docket holder's WWTP discharge is required to comply with the SPW requirements, as outlined in Article 3.10.3A.2. of the WQR.

Article 3.10.3A.2.e.1). and 2). of the Commission's WQR states that projects subject to review under Section 3.8 of the Compact that are located in the drainage area of SPW must submit for approval a Non-Point Source Pollution Control Plan (NPSPCP) that controls the new or increased non-point source loads generated within the portion of the docket holder's service area which is also located within the drainage area of SPW. The service area of the docket holder is located in the drainage area to the SPW. Since this project does not entail additional construction and expansion of facilities and or service area there are no new or increased non-point source loads associated with this approval, the NPSPCP requirement is not applicable at this time. Accordingly, DECISION Conditions II.x. has been included in this docket.

Near the project site, the Delaware River has an estimated seven-day low flow with a recurrence interval of ten years of 737.4 mgd (1,141 cfs). This estimate is based on the flow data measured at the USGS Delaware River at Belvidere NJ Gage No. 01446500 and is proportionally adjusted for the basin drainage area at the point of discharge. The ratio of this low flow to the hydraulic design wastewater discharge from the 0.066 mgd Tuscarora WWTP is 11,173 to 1.

The nearest surface water intake of record for public water supply is located on the Delaware River approximately 20 River Miles downstream of the docket holder's WWTP, and is operated by the City of Easton.

The project does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact on the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

The effluent limits in the NPDES Permit are in compliance with Commission effluent quality requirements, where applicable.

The project is designed to produce a discharge meeting the effluent requirements as set forth in the Commission's *Water Quality Regulations (WQR)*.

C. DECISION

I. Effective on the approval date for Docket No. D-2006-038-3 below, Docket No. D-2006-038-2 is terminated and replaced by Docket No. D-2006-038-3.

II. The project and appurtenant facilities as described in Section A “Physical Features” of this docket are approved pursuant to Section 3.8 of the *Compact*, subject to the following conditions:

a. Docket approval is subject to all conditions, requirements, and limitations imposed by the PADEP in its NPDES Permit (and Part II Permit if appropriate).

b. The facility and operational records shall be available at all times for inspection by the DRBC.

c. The facility shall be operated at all times to comply with the requirements of the Commission’s *WQR* and Flood Plain Regulations (*FPR*). (non-tidal discharges)

d. The docket holder shall comply with the requirements contained in the EFFLUENT TABLES in Section A.4.d. of this docket. The docket holder shall submit the required monitoring results electronically to the DRBC Project Review Section via email aemr@drbc.state.nj.us on the **Annual Effluent Monitoring Report Form** located at this web address: <http://www.state.nj.us/drbc/programs/project/pr/info.html>. The monitoring results shall be submitted annually, absent any observed limit violations, by January 31. If a DRBC effluent limit is violated, the docket holder shall submit the result(s) to the DRBC within 30 days of the violation(s) and provide a written explanation that states the action(s) the docket holder has taken to correct the violation(s) and protect against any future violations.

e. Except as otherwise authorized by this docket, if the docket holder seeks relief from any limitation based upon a DRBC water quality standard or minimum treatment requirement, the docket holder shall apply for approval from the Executive Director or for a docket revision in accordance with Section 3.8 of the *Compact* and the *Rules of Practice and Procedure*.

f. If at any time the receiving treatment plant proves unable to produce an effluent that is consistent with the requirements of this docket approval, no further connections shall be permitted until the deficiency is remedied.

g. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.

h. The discharge of wastewater shall not increase the ambient temperatures of the receiving waters by more than 5°F, nor shall such discharge result in stream temperatures exceeding 87°F. (Non-tidal, Non-trout Waters)

i. The docket holder is permitted to treat and discharge wastewaters as set forth in the Area Served Section of this docket, which incorporates by reference Sections B (Type of Discharge) and D (Service Area) of the docket holder's Application to the extent consistent with all other conditions of this DECISION Section.

j. The docket holder shall discharge wastewater in such a manner as to avoid injury or damage to fish or wildlife and shall avoid any injury to public or private property.

k. No sewer service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).

l. The issuance of this docket approval shall not create any private or proprietary rights in the waters of the Basin, and the Commission reserves the right to amend, suspend or rescind the docket for cause, in order to ensure proper control, use and management of the water resources of the Basin.

m. Prior to allowing connections from any new service areas or any new developments, the docket holder shall either submit and have approved by the Executive Director of the DRBC a NPSPCP in accordance with Section 3.10.3.A.2.e, or receive written confirmation from the Executive Director of the DRBC that the new service area is in compliance with a DRBC approved NPSPCP.

n. The docket holder is responsible for timely submittal to the DRBC of a docket renewal application on the appropriate application form including the appropriate docket application filing fee (see 18 CFR 401.43) at least 6 months in advance of the docket expiration date set forth below. The docket holder will be subject to late filed renewal surcharges in the event of untimely submittal of its renewal application, whether or not DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. In the event that a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the docket holder, to reissue the docket before the expiration date below, the terms and conditions of the current docket will remain fully effective and enforceable against the docket holder pending the grant or denial of the application for docket approval.

o. The docket holder shall be subject to applicable DRBC regulatory program fees, in accordance with duly adopted DRBC resolutions and/or regulations (see 18 CFR 401.43).

p. This approval is transferable by request to the DRBC Executive Director provided that the project purpose and area served approved by the Commission in this docket will not be materially altered because of the change in project ownership. The request shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).

q. The docket holder shall request a name change of the entity to which this approval is issued if the name of the entity to which this approval is issued changes its name. The request for name change shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).

r. The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.

s. Any person who objects to a docket decision by the Commission may request a hearing in accordance with Article 6 of the Rules of Practice and Procedure. In accordance with Section 15.1(p) of the Delaware River Basin Compact, cases and controversies arising under the Compact are reviewable in the United States district courts.

t. The docket holder may request of the Executive Director in writing the substitution of specific conductance for TDS. The request should include information that supports the effluent specific correlation between TDS and specific conductance. Upon review, the Executive Director may modify the docket to allow the substitution of specific conductance for TDS monitoring.

u. Nothing in this docket constitutes a defense to any penalty action for past conduct of the docket holder or ongoing activity not authorized by this approval. In particular, renewal of this docket does not resolve violations – whether in the past or continuing – of provisions of the Delaware River Basin Compact (“Compact”) or any rule, regulation, order or approval duly issued by the Commission or the Executive Director pursuant to the Compact. The Commission reserves its right to take appropriate enforcement action against the docket holder, including but not limited to recovery of financial penalties consistent with Section 14.17 of the Compact, for any and all such prior or continuing violations.

v. The docket holder is prohibited from treating/pre-treating any hydraulic fracturing wastewater from sources in or out of the Basin at this time. Should the docket holder wish to treat/pre-treat hydraulic fracturing wastewater in the future, the docket holder will need to first apply to the Commission to renew this docket and be issued a revised docket allowing such treatment and an expanded service area. Failure to obtain this approval prior to treatment/pre-treatment will result in action by the Commission.

w. Prior to the docket holder initiating any substantial alterations or additions to the existing WWTP as defined in Section 3.10.3A2.a.16) of the Commission's *WQR*, an application must be submitted and approved by the Commission. Such an application shall be submitted prior to final design to ensure that the Commission can provide the docket holder with draft effluent limitations for SPW specific parameters as guidance for design as to not require duplication of work or cause a substantial expenditure of public funds without Commission approval. The docket holder is encouraged to contact the Commission staff during the planning stages to identify the potential effluent limitations required to meet the no measurable change parameters under SPW.

BY THE COMMISSION

APPROVAL DATE:

EXPIRATION DATE: February 28, 2023

DRAFT